TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO. / TASK NO. NAS5- / TASK NO. / AMENDMENT	JOB ORDER NUMBER	APPROP. FY
QSS Group, Inc.	99124 60	480-615-31-69-89	99

TASK TITLE: (NTE 80 characters; include Project name)

POES Search and Rescue Support

APPROVALS: (Type or print name and sign)

	DATE	ORG CODE	MAIL CODE	PHONE
ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR) David Affens David W. Affens	4/29/99	567	480	301-286-9839
BRANCH HEAD Art Azarbarzin A. Azarbarzin	4/29/99	CODE 480		PHONE 301-286-8430
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR) for Fred Huegel Deborah A. Clark	4/29/99	CODE 568		PHONE 301-286-2285

FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? (IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)	CONTRACTING OFFICER'S QUALITY REP.	DESIGNATED FAM:
[X] NO [ ] YES		

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)
C.O. Requested Quote on:
Date: MAY - 3 1999

Contractor will develop specification or statement of work under this task for a future procurement. [X] NO [ ] YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. [ ] NO [ ] YES [X] N/A

Government Furnished Property/Facilities: [ ] NO [X] YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: [ ] NO [X] YES If yes: [X] TOTAL [ ] PARTIAL
If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: [X] NO [ ] YES

Highlighted Contract Clauses: *(to be completed by Contracting Officer)*

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be May 3, 1999.

INCENTIVE FEE STRUCTURE (check one)
(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	_X_ No. 1	___ No. 2	___ No. 3	___ No. 4	___ No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is $353,219.
The target fee of this task order is $ 22,826.
The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is $ 376,045.

The maximum fee is $ 33,361.
The minimum fee is $0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

Lorrie L. Eakin — SIGNATURE OF CONTRACTING OFFICER
7/12/99 — DATE
Lorrie L. Eakin, Contracting Officer — TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE — DATE

12/98 (OLDER VERSIONS ARE OBSOLETE)

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO./TASK NO.		
	NAS5-	TASK NO.	AMENDMENT
QSS Group, Inc.	99124	60	

Applicable paragraphs from contract Statement of Work: 2B

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

The contractor shall provide experienced systems engineering and technician services to the NASA Search and Rescue Rescue Mission at GSFC. These services shall include maintenance and operation of the Systems Evaluation and Laboratory (SEDL) which is a ground station test system used to qualify newly launched spacecraft subsystems and perform specialized testing in support of NOAA's operation of the Cospas-Sarsat system. In addition, the contractor shall provide technical research and development services to evaluate the operational feasibility of using airborne and spaceborne synthetic aperture radar and other technology to develop beaconless search and rescue systems capable of locating sinking ships and downed aircraft.

Maintain proper operation of Beacon Simulator Signal Generator and provide support for T-4 test scenarios.
Assure that system design of SARSAT flight segment is compatible with performance requirements for the launch vehicle and the ground segment and verify that reliability objectives are satisfied.
Review and approve major SARSAT system level functional performance requirements.
Compare predicted and actual performance of the SARR and SARP instruments aboard spacecraft .
Implement hardware and software to support SEDL antenna control using PC hardware.
Maintain proper operation of Beacon Simulator Signal Generator and provide support for T-4 test scenarios.
Continue feasibility study of transition of HP-1000 and associated systems to a PC based system.
Process and analyze synthetic aperture radar imagery from multipolarization, multifrequency, multisensor platforms.
Continue development and evaluation automatic target detection techniques applied to radar imagery.
Continue interferometric processing to generate high resolution digital terrain elevation maps.
Continue design and develop software for real-time data processing and georectification.
Participate in planning and execution of Search and Rescue field experiments.
Participate in relevant technical meetings and reviews.

PERFORMANCE SPECIFICATIONS:

Bi-monthly status reports to include problems/issues/successes related to required work.
Examples of deliverables and requirements contained in the SOW will be provided to the contractor.

APPLICABLE DOCUMENTS:

National Search and Rescue Plan.

TASK END DATE: 4/30/00

MILESTONES/DELIVERABLES AND DATES:

Status Reports: Bi-monthly --~~xxxxxxx~~ Bi-Monthly
Experiment report: 2 weeks after completion of the field experiment
mplement hardware and software to support SEDL antenna control using PC hardware – 9/30/99
Correct Beacon Simulator Signal Generator malfunction – 9/15/99
Report on feasibility study of transition of HP-1000 and associated systems to PC based system -- 8/15/99
Complete processing and analysis of the L-band P-3 data collection runs at Virginia Beach – 8/31/99
nitiate design and development of search management tool – 6/15/99
Complete initial phase of baseline calibration and motion compensation study – 5/31/99

PERFORMANCE STANDARDS:

Schedule: On-time delivery of requested reports.
Technical: Acceptance of completed test reports and/or analysis.

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

David Affens, Building 6, Room W206